

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 2003/000876

## A. CLASSIFICATION OF SUBJECT MATTER

IPC7: E21B 10/64, E21B 7/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: E21B, E21D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages   | Relevant to claim No. |
|-----------|--|-----------------------|
| A         | GB 973790 A (J. LABROSSE), 28 October 1964<br>(28.10.1964)<br>--   | 1-10                  |
| A         | DE 2839868 A1 (BRODER, A.), 5 April 1979<br>(05.04.1979)<br>--   | 1-10                  |
| A         | EP 0195265 A1 (ROBERT BOSCH GMBH), 24 Sept 1986<br>(24.09.1986)<br>--  | 1-10                  |
| A         | EP 0429649 A1 (VSESOJUZNY NAUCHNO-ISSLEDOVATELSKY<br>INSTITUT METODIKI TEKHNIKI RAZVEDKI ET AL),<br>5 June 1991 (05.06.1991)<br>-- | 1-10                  |

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

11 February 2004

Date of mailing of the international search report

11 7 -02- 2004

Name and mailing address of the ISA/  
Swedish Patent Office  
Box 5055, S-102 42 STOCKHOLM  
Facsimile No. +46 8 666 02 86

Authorized officer

Christer Bäcknert / MRO  
Telephone No. +46 8 782 25 00

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/FI 93/000876

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages                              | Relevant to claim No. |
|-----------|---|-----------------------|
| A         | FR 2043841 A (FIRMA GEBR. BÖHLER & CO.<br>AKTIENGESELLSCHAFT), 19 February 1971 (19.02.1971)<br><br>--<br>----- | 1-10                  |

# INTERNATIONAL SEARCH REPORT

Information on patent family members

24/12/2003

International application No.

PCT/FI 03/000876

|    |         |    |            |      |               |            |
|----|---------|----|------------|------|---------------|------------|
| GB | 973790  | A  | 28/10/1964 | NONE |               |            |
| DE | 2839868 | A1 | 05/04/1979 | CH   | 622312 A      | 31/03/1981 |
| EP | 0195265 | A1 | 24/09/1986 | AT   | 39334 T       | 15/01/1989 |
|    |         |    |            | DE   | 3510375 A     | 25/09/1986 |
|    |         |    |            | DE   | 3661465 D     | 00/00/0000 |
| EP | 0429649 | A1 | 05/06/1991 | FI   | 910283 D      | 00/00/0000 |
|    |         |    |            | JP   | 4500105 T     | 09/01/1992 |
|    |         |    |            | WO   | 9014494 A     | 29/11/1990 |
| FR | 2043841 | A  | 19/02/1971 | AT   | 294728 B      | 10/12/1971 |
|    |         |    |            | BE   | 751227 A      | 03/11/1970 |
|    |         |    |            | CH   | 516729 A      | 15/12/1971 |
|    |         |    |            | CS   | 172329 B      | 29/12/1976 |
|    |         |    |            | DE   | 2025439 A,B,C | 17/12/1970 |